



**BUREAU OF PLANT & APIARY  
INSPECTION**

**ANNUAL REPORT**

**July 1, 2008 - June 30, 2009**

**Tyson R. Emery, Chief**

**FLORIDA DEPARTMENT OF  
AGRICULTURE  
AND CONSUMER SERVICES  
Charles H. Bronson, Commissioner**

**DIVISION OF PLANT INDUSTRY  
Richard D. Gaskalla, Director**

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**BUREAU OF PLANT AND APIARY INSPECTION PERSONNEL**

Tyson R. Emery	<b>Bureau Chief</b>	Gainesville
Sheila McMahon	<b>Staff Assistant</b>	Gainesville
Bryan K Benson	<b>Asst Chief, Plant Inspection</b>	Gainesville
Robert S. Wester	<b>Distributed Computer Sys Specialist</b>	Gainesville
Glenda J. Anderson	<b>Senior Word Processing Sys Operator</b>	Gainesville
Amber Totten	<b>Senior Clerk</b>	Gainesville
Stephen A. Hildebrandt	<b>Environmental Specialist III</b>	Gainesville
L. Wayne Clifton	<b>Environmental Specialist III</b>	Palmetto
Cathy Daniels	<b>Sr. Word Processing Systems Operator</b>	Gainesville
Donna Pons	<b>Fiscal Assistant I</b>	Gainesville
	<b><u>REGION I</u></b>	
<b>Vacant</b>	<b>Environmental Supervisor II</b>	Gainesville
Kelly Douglas	<b>Administrative Secretary</b>	Gainesville
<b>Christine A. Zamora</b>	<b>Environmental Supervisor I</b>	Gainesville
William L. Robinson	<b>Environmental Specialist I</b>	Milton
Michael Bentley	<b>Environmental Specialist I</b>	Monticello
M. Janie Echols	<b>Environmental Specialist I</b>	Lake City
Cheryl A. Jones	<b>Environmental Specialist I</b>	Gainesville
Sol Looker	<b>Environmental Specialist I</b>	Palatka
Larry W. Smith	<b>Environmental Specialist I</b>	Panama City
W. Wayne Bailey	<b>Environmental Specialist I</b>	Trenton
Andrea Van Loan	<b>Agricultural Technician II</b>	Gainesville
<b>James R. Holm</b>	<b>Environmental Supervisor I</b>	Tavares
Shelly M. Wayte	<b>Environmental Specialist I</b>	Ocala
Stephen Jenner	<b>Environmental Specialist I</b>	Inverness
Mary C. Sellers	<b>Environmental Specialist I</b>	Tavares
Harry L. Morrison	<b>Environmental Specialist I</b>	Tavares
Vacant	<b>Environmental Specialist I</b>	Tavares
Charlie L. Spriggs	<b>Environmental Specialist I</b>	Tavares
Tommie R. Powers	<b>Environmental Specialist I</b>	Tavares
Wayne Nichols	<b>Agricultural Technician II</b>	Tavares
Sara M. White	<b>Agricultural Technician II</b>	Inverness
L. Mike Hatcher	<b>Agricultural Technician II</b>	Tavares
<b>Tracy L. Wright</b>	<b>Environmental Supervisor I</b>	Deland
Isabelle James	<b>Environmental Specialist I</b>	Jacksonville
Flewellyn W. Podris	<b>Environmental Specialist I</b>	Jacksonville

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Stacey S. Simmons	<b>Environmental Specialist I</b>	Deland
Ray Jarrett	<b>Environmental Specialist I</b>	Port Orange
Karen J. Coffey	<b>Environmental Specialist I</b>	Port Orange
Kevin S. Loadholtz	<b>Environmental Specialist I</b>	Deland
Jess V. Smith	<b>Environmental Specialist I</b>	Port Orange
	<b><u>REGION II</u></b>	
<b>Leo M. Sansoucy</b>	<b>Environmental Supervisor II</b>	Apopka
Aniela St. Laurent	<b>Administrative Secretary</b>	Apopka
<b>Serena Stornaiuolo</b>	<b>Environmental Supervisor I</b>	Apopka
George A. Warden	<b>Environmental Specialist I</b>	Apopka
Lance A. Brown	<b>Environmental Specialist I</b>	Apopka
Leslie J. Wilber	<b>Environmental Specialist I</b>	Apopka
Jesse M. Krok	<b>Environmental Specialist I</b>	Apopka
Kathy A. Gonzalez	<b>Environmental Specialist I</b>	Apopka
Anthony Puppelo	<b>Environmental Specialist I</b>	Apopka
Ping Qiao	<b>Environmental Specialist I</b>	Apopka
Charles Leggett	<b>Environmental Specialist I</b>	Apopka
Edgardo Vargas	<b>Environmental Specialist I</b>	Apopka
Wayland (Chuck) Smith	<b>Agricultural Technician II</b>	Apopka
Karen S. Koby	<b>Agricultural Technician II</b>	Apopka
<b>Helen A. Smith</b>	<b>Environmental Supervisor I</b>	Dade City
Daniel Merced	<b>Environmental Specialist I</b>	Dade City
Albert L. Wright	<b>Environmental Specialist I</b>	Winter Haven
Vacant	<b>Environmental Specialist I</b>	Winter Haven
Susan Distelberg	<b>Environmental Specialist I</b>	Winter Haven
Karen Destefano	<b>Environmental Specialist I</b>	Dade City
Diana E. Bozeman	<b>Environmental Specialist I</b>	Dade City
Michael Propst	<b>Agricultural Technician II</b>	Dade City
Deanna Pelfrey	<b>Agricultural Technician II</b>	Dade City
<b>Ralph E. Muekeley</b>	<b>Environmental Supervisor I</b>	Clearwater
Richard A. White	<b>Environmental Specialist I</b>	Clearwater
Thomas S. Lastrapes	<b>Environmental Specialist I</b>	Clearwater
Mark A. Spearman	<b>Environmental Specialist I</b>	Clearwater
Gabriella M. Bernard	<b>Environmental Specialist I</b>	Clearwater
Linda G. McRay	<b>Environmental Specialist I</b>	Clearwater
Ralph J. McNeill	<b>Environmental Specialist I</b>	Clearwater
Bobbe A. Rose	<b>Environmental Specialist I</b>	Clearwater
Daniel A. Chiszar	<b>Agricultural Technician II</b>	Clearwater
William J. Salway	<b>Agricultural Technician II</b>	Clearwater
Deborah L. Simmons	<b>Agricultural Technician II</b>	Clearwater

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Calvin Snyder	<b>Agricultural Technician II</b>	Clearwater
Alexander Stupak	<b>Agricultural Technician II</b>	Clearwater
Benjamin J. Sudano	<b>Agricultural Technician II</b>	Clearwater
<b>Christine J. Frere</b>	<b>Environmental Supervisor I</b>	Ft. Pierce
Richard T. Bloom	<b>Environmental Specialist I</b>	Avon Park
J. Brooks Shelley	<b>Environmental Specialist I</b>	Cocoa
Angelina M. Toral	<b>Environmental Specialist I</b>	Cocoa
Carlos Averhoff	<b>Environmental Specialist I</b>	Vero Beach
Dagne A. Vazquez	<b>Environmental Specialist I</b>	Ft. Pierce
Carrie S. Edenfield	<b>Environmental Specialist I</b>	Avon Park
Mario Perez	<b>Agricultural Technician II</b>	Ft. Pierce
Jeanie Kennedy	<b>Agricultural Technician II</b>	Vero Beach
<b>Amber Roux</b>	<b>Environmental Supervisor I</b>	Bradenton
J. Eddie Anderson	<b>Environmental Specialist I</b>	Bradenton
VACANT	<b>Environmental Specialist I</b>	Bradenton
Susan Youngblood	<b>Environmental Specialist I</b>	Bradenton
K. Lea Etchells	<b>Environmental Specialist I</b>	Bradenton
VACANT	<b>Environmental Specialist I</b>	Bradenton
Ethel Hatfield	<b>Environmental Specialist I</b>	Bradenton
Mary S. Williams	<b>Agricultural Technician II</b>	Bradenton
Geneva M. Walker	<b>Agricultural Technician II</b>	Bradenton
Patricia A. Bussell	<b>Agricultural Technician II</b>	Bradenton
Doris Rogers	<b>Agricultural Technician II</b>	Bradenton
VACANT	<b>Agricultural Technician II</b>	Bradenton
<b>Howard L. Wallace</b>	<b>Environmental Supervisor I</b>	Tampa
VACANT	<b>Environmental Specialist I</b>	Tampa
Jim R. Martin	<b>Environmental Specialist I</b>	Tampa
William Stokes	<b>Environmental Specialist I</b>	Tampa
Sara P. Danley	<b>Environmental Specialist I</b>	Tampa
Joseph Hawk	<b>Environmental Specialist I</b>	Tampa
James L. Anderson	<b>Environmental Specialist I</b>	Tampa
Maria Echevarria-Garcia	<b>Agricultural Technician II</b>	Tampa
Sylvester Dehn	<b>Agricultural Technician II</b>	Tampa
Louis C. Smith	<b>Agricultural Technician II</b>	Tampa
William A. Counts	<b>Agricultural Technician II</b>	Tampa
VACANT	<b>Agricultural Technician II</b>	Tampa
Charles G. Davis	<b>Agricultural Technician II</b>	Tampa
VACANT	<b>Agricultural Technician II</b>	Tampa
Marvin L. Nelson	<b>Agricultural Technician II</b>	Tampa
Peter V. Brozzetti	<b>Agricultural Technician II</b>	Tampa

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<b><u>REGION III</u></b>		
<b>Louis T. Lodyga</b>	<b>Environmental Supervisor II</b>	Miami
Elsie Aviles	<b>Administrative Secretary</b>	Miami
<b>Ray T. Buchholz</b>	<b>Environmental Supervisor I</b>	West Palm Beach
Jorge P. Gomez	<b>Environmental Specialist I</b>	Palm City
B. Marie Clark	<b>Environmental Specialist I</b>	West Palm Beach
Joathomaz Da Fonseca	<b>Environmental Specialist I</b>	Bell Glade
Thomas S. Everett	<b>Environmental Specialist I</b>	West Palm Beach
LeAnn M. West	<b>Environmental Specialist I</b>	Palm City
James C. Lee	<b>Environmental Specialist I</b>	West Palm Beach
Michael L. Cartrett	<b>Environmental Specialist I</b>	Belle Glade
Lane M. Smith	<b>Environmental Specialist I</b>	Boynton Beach
Antonio I. Perez	<b>Environmental Specialist I</b>	Boynton Beach
Eduardo Solis	<b>Environmental Specialist I</b>	West Palm Beach
<b>Scott Shea</b>	<b>Environmental Supervisor I</b>	Pompano Beach
Sallie H. Simmons	<b>Environmental Specialist I</b>	Boynton Beach
Gregg D. Farina	<b>Environmental Specialist I</b>	Pompano Beach
J. Keith Harris	<b>Environmental Specialist I</b>	Pompano Beach
Nury M. Marrone	<b>Environmental Specialist I</b>	Davie
Rita J. Carpenter	<b>Environmental Specialist I</b>	Davie
Gangadai Azore	<b>Environmental Specialist I</b>	Davie
Frank A. Burgos	<b>Environmental Specialist I</b>	Davie
Ellen J. Tannehill	<b>Environmental Specialist I</b>	Boynton Beach
VACANT	<b>Environmental Specialist I</b>	Boynton Beach
Joan Lawrence	<b>Agricultural Technician II</b>	Davie
Carlene Sargeant	<b>Agricultural Technician II</b>	Davie
<b>Charles Gonzalez</b>	<b>Environmental Supervisor I</b>	Hialeah
Haydee I. Escobar	<b>Environmental Specialist I</b>	Hialeah
Olga Garcia	<b>Environmental Specialist I</b>	Hialeah
Rebecca Sanders	<b>Environmental Specialist I</b>	Hialeah
Raul Santillan	<b>Environmental Specialist I</b>	Miami
Keith J. Richardson	<b>Environmental Specialist I</b>	Hialeah
Ciro Milan	<b>Environmental Specialist I</b>	Miami
Misael E. Igarza	<b>Environmental Specialist I</b>	Hialeah
Merlene Francois	<b>Agricultural Technician II</b>	Hialeah
Miguel Hernandez	<b>Agricultural Technician II</b>	Hialeah
Gloria Borge	<b>Agricultural Technician II</b>	Hialeah
Carlos M. Pelegrin	<b>Agricultural Technician II</b>	Hialeah
Sergio Delgado	<b>Agricultural Technician II</b>	Miami
Juan Revuelta	<b>Agricultural Technician II</b>	Hialeah
Luis Pena	<b>Agricultural Technician II</b>	Hialeah

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<b>Rosamaria M. Quinones</b>	<b>Environmental Supervisor I</b>	Miami
VACANT	<b>Environmental Specialist I</b>	Miami
Maria Acosta	<b>Environmental Specialist I</b>	Miami
Steve Beidler	<b>Environmental Specialist I</b>	Miami
Juan Menendez	<b>Environmental Specialist I</b>	Miami
Duraid I. Hanna	<b>Environmental Specialist I</b>	Miami
Cheryl L. Lichkai	<b>Environmental Specialist I</b>	Florida City
Lynn D. Howerton	<b>Environmental Specialist I</b>	Florida City
Melba A. Otero	<b>Environmental Specialist I</b>	Miami
Ana L. Ochoa	<b>Environmental Specialist I</b>	Florida City
Karen W. LeBoutillier	<b>Environmental Specialist I</b>	Florida City
Juan Garcia Lopez	<b>Agricultural Technician II</b>	Miami
Jose Llanos	<b>Agricultural Technician II</b>	Miami
Haylett Cruz-Escoto	<b>Agricultural Technician II</b>	Miami
<b>Matt W. Brodie</b>	<b>Environmental Supervisor I</b>	Naples
Walter W. Golden	<b>Environmental Specialist I</b>	Ft. Myers
Mark Terrell	<b>Environmental Specialist I</b>	Labelle
Scott D. Krueger	<b>Environmental Specialist I</b>	Naples
Roberto Delcid	<b>Environmental Specialist I</b>	Labelle
Leonora J. Coleman	<b>Environmental Specialist I</b>	Naples
Richard J. Nanneman	<b>Environmental Specialist I</b>	Naples
Richard L. Blaney	<b>Environmental Specialist I</b>	Ft. Myers
Jo Ann Pate	<b>Environmental Specialist I</b>	Labelle
Linda Combs	<b>Agricultural Technician II</b>	Ft. Myers
Edward A. Ziegler	<b>Agricultural Technician II</b>	Naples
Maria Turrubiardez	<b>Agricultural Technician II</b>	Immokalee
<b>COMMERCIAL CITRUS NURSERIES</b>		
<b>Justin T. Ezell</b>	<b>Environmental Supervisor II</b>	Winter Haven
Jason A. Johnson	<b>Environmental Supervisor I</b>	Winter Haven
Donald G. Taylor	<b>Environmental Specialist I</b>	Avon Park
Peter Carbon	<b>Environmental Specialist I</b>	Gainesville
Nuoc V. Dang	<b>Environmental Specialist I</b>	Winter Haven
Johnny J. Yates	<b>Environmental Specialist I</b>	Winter Haven
Craig J. Landress	<b>Environmental Specialist I</b>	Avon Park
Randall Dean	<b>Environmental Specialist I</b>	Winter Haven
<b><u>CITRUS TREE SURVEY</u></b>		
<b>Warren J. Dowling</b>	<b>Environmental Supervisor I</b>	Dade City
Kathy D. Morgan	<b>Environmental Specialist I</b>	Palmetto
Carrie Karppe	<b>Environmental Specialist I</b>	Dade City

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VACANT	<b>Environmental Specialist I</b>	Clermont
Lavinia Hancock	<b>Environmental Specialist I</b>	Avon Park
Charles D. Wolfe	<b>Environmental Specialist I</b>	Labelle
Janet L. Young	<b>Environmental Specialist I</b>	Vero Beach

**APIARY INSPECTION**

<b>Gerald W. Hayes</b>	<b>Assistant Chief, Apiary Inspection</b>	Gainesville
Cathy Deweese	<b>Administrative Secretary</b>	Gainesville
Thomas B. Dowda	<b>Agriculture and Consumer Protection Supervisor</b>	Gainesville
Richard L. Dunaway	<b>Agriculture and Consumer Protection Supervisor</b>	Winter Haven
John L. Bastianelli	<b>Agriculture and Consumer Protection Specialist</b>	Sebring
Jerry A. Crews	<b>Agriculture and Consumer Protection Specialist</b>	Vero Beach
Harry E. Grant	<b>Agriculture and Consumer Protection Specialist</b>	Palm City
D. Fred Howard	<b>Agriculture and Consumer Protection Specialist</b>	Labelle
Jeffrey D. Pippin	<b>Agriculture and Consumer Protection Specialist</b>	Bristol
William I. Langston	<b>Agriculture and Consumer Protection Specialist</b>	Bristol
David Westervelt	<b>Environmental Specialist I</b>	Tavares
Carl D. Corbin	<b>Agriculture and Consumer Protection Specialist</b>	Milton
Eric Jameson	<b>Agriculture and Consumer Protection Specialist</b>	Dade City
David Barnes	<b>Agriculture and Consumer Protection Inspector</b>	Gainesville
Robert Craig	<b>Agriculture and Consumer Protection Inspector</b>	Tavares
Stephanie Tarwater	<b>Agriculture and Consumer Protection Inspector</b>	Winter Haven
VACANT	<b>Biological Scientist III</b>	Gainesville
VACANT	<b>Biological Scientist III</b>	Gainesville

**CARIBBEAN FRUIT FLY CERTIFICATION PROGRAM**

<b>Laird Weaver</b>	<b>Environmental Specialist III</b>	<b>Ft. Pierce</b>
Marilyn Quigley	<b>Administrative Secretary</b>	Ft. Pierce
<b>Denise Marshall</b>	<b>Certification Specialist</b>	Ft. Pierce
Barbara Scher	<b>Senior Clerk</b>	Ft. Pierce
<b>Lisa Whiteman</b>	<b>Ag. &amp; Con. Protection Insp. Supv.</b>	Ft. Pierce
VACANT	<b>Ag. &amp; Con. Protection Inspector</b>	Ft. Pierce

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VACANT	<b>Ag. &amp; Con. Protection Inspector</b>	Ft. Pierce
Earnestine Grier	<b>Agricultural Technician III</b>	Ft. Pierce
Patrick Armao	<b>Agricultural Technician II</b>	Ft. Pierce
John Serra	<b>Agricultural Technician II</b>	Ft. Pierce
Jay Towler	<b>Agricultural Technician II</b>	Ft. Pierce
Katie Weingarten	<b>Agricultural Technician II</b>	Ft. Pierce
VACANT	<b>Agricultural Technician II</b>	Ft. Pierce
VACANT	<b>Agricultural Technician II</b>	Ft. Pierce
VACANT	<b>Agricultural Technician II</b>	Ft. Pierce
<b>Paul Sinnott</b>	<b>Ag. &amp; Con. Protection Insp. Supv.</b>	Ft. Pierce
Mike Schlueter	<b>Ag. &amp; Con. Protection Inspector</b>	Ft. Pierce
Toni Weaver	<b>Agricultural Technician III</b>	Ft. Pierce
Jean Blackwood	<b>Agricultural Technician II</b>	Ft. Pierce
Alan Goldberg	<b>Agricultural Technician II</b>	Ft. Pierce
Brandon Morgan	<b>Agricultural Technician II</b>	Ft. Pierce
Daniel Ochse	<b>Agricultural Technician II</b>	Ft. Pierce
Susan Scelzi	<b>Agricultural Technician II</b>	Ft. Pierce
VACANT	<b>Agricultural Technician II</b>	Ft. Pierce
VACANT	<b>Agricultural Technician II</b>	Ft. Pierce
<b>Carol McKenzie</b>	<b>Ag. &amp; Con. Protection Insp. Supv.</b>	Vero Beach
John Quigley	<b>Ag. &amp; Con. Protection Inspector</b>	Vero Beach
VACANT	<b>Ag. &amp; Con. Protection Inspector</b>	Vero Beach
Thomas Wilkus	<b>Agricultural Technician III</b>	Vero Beach
VACANT	<b>Senior Clerk</b>	Vero Beach
Delores Coffman	<b>Agricultural Technician II</b>	Vero Beach
Cindy Halstead	<b>Agricultural Technician II</b>	Vero Beach
Ewa Kurtycz	<b>Agricultural Technician II</b>	Vero Beach
VACANT	<b>Agricultural Technician II</b>	Vero Beach
VACANT	<b>Agricultural Technician II</b>	Vero Beach
<b>Joyce Willis</b>	<b>Ag. &amp; Con. Protection Insp. Supv.</b>	Labelle
Ted Phillips	<b>Ag. &amp; Con. Protection Inspector</b>	Winter Haven
VACANT	<b>Ag. &amp; Con. Protection Inspector</b>	Labelle
Lisa Bakey	<b>Agricultural Technician III</b>	Labelle
Joseph Creazzo	<b>Agricultural Technician II</b>	Winter Haven
Mary Graham	<b>Agricultural Technician II</b>	Labelle
Karen Noland	<b>Agricultural Technician II</b>	Labelle
VACANT	<b>Agricultural Technician II</b>	Labelle
VACANT	<b>Agricultural Technician II</b>	Labelle
VACANT	<b>Agricultural Technician II</b>	Winter Haven

## **INTRODUCTION**

The Bureau of Plant and Apiary Inspection is responsible for protecting Florida's agricultural industry and the public from the introduction and spread of serious plant and honeybee pests. This is accomplished by conducting regular inspections and surveys for the early detection of these pests. This bureau enforces Florida Statutes Chapter 570.32, 581, 586 and 593 as well as departmental rules 5B Florida Administrative Code pertaining to the movement of plants, plant products, honeybees, and honeybee products.

The bureau compiles an annual report following the close of each fiscal year. This report contains statistical information on Florida nurseries, nursery stock dealers, nursery stock, beekeepers, honeybee colonies, export certification, and other activities relating to the bureau's responsibilities.

This report is used as an organizational tool for planning bureau activities and budgetary needs. It is available to the public and the industry, and it provides frequently requested information concerning the plant and apiary industries in Florida.

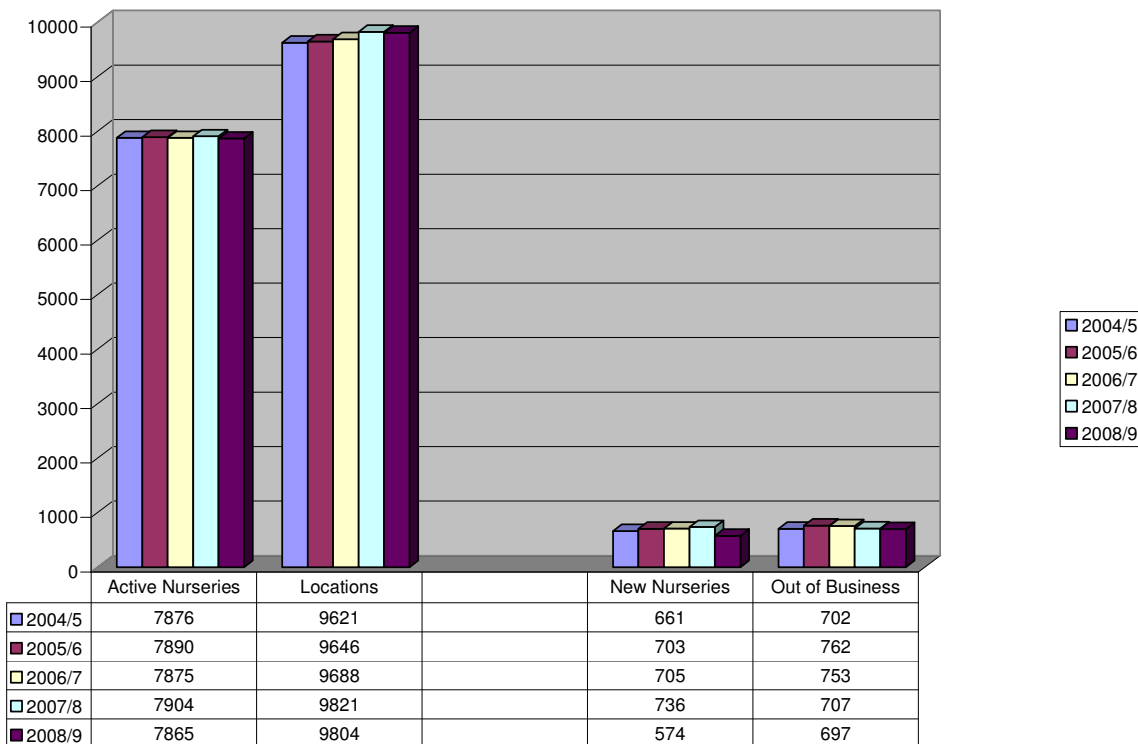
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**NURSERIES**

The total number of active, registered nurseries reported under inspection for the 2008-2009 fiscal year was **7,865** compared to 7,904 active registered nurseries last year. Some nurseries have more than one location or block. With **1,939** additional locations or blocks, the total number of nursery blocks is **9,804**. This compares to last year's total of 9,821 nursery locations and blocks.

During the 2008-2009 Fiscal Year, **574** new nurseries were registered, compared to the 736 new registrations last year. During the same period, **697** nurseries were marked out-of-business. A total of **23,766** inspections were made at nurseries and blocks this fiscal year. This compares with 16,527 inspections of nurseries and blocks reported in 2007-2008 fiscal year. Plant Inspection personnel spent **44,516** hours working on nursery related issues.

**Nurseries 2004-2008**

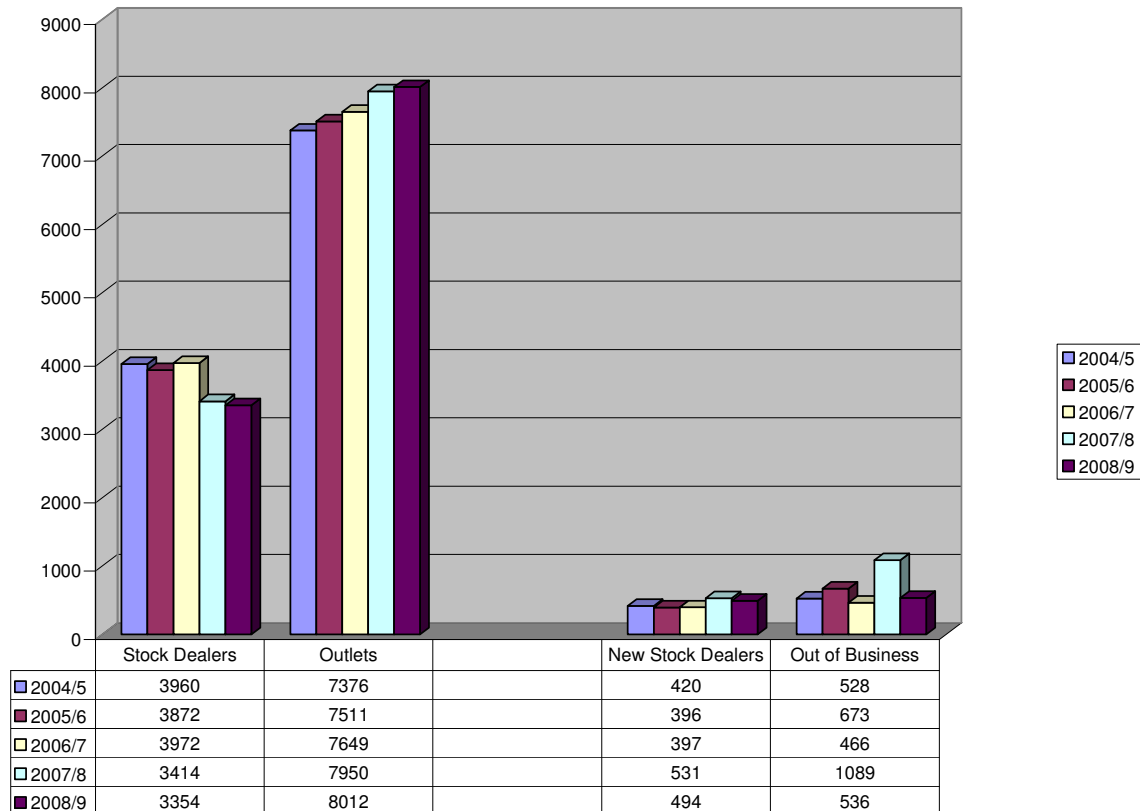


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**NURSERY STOCK DEALERS**

There were a total of **3,354** nursery stock dealer establishments with active registration at the end of fiscal year 2008-2009. This compares with **3,414** registered nursery stock dealer establishments last year. Some nursery stock dealers have multiple locations or outlets. With an additional **5,182** locations or outlets, the total number of registered nursery stock dealer outlets is **8,536** at the end of fiscal year 2008-2009. This compares to **8,012** registered outlets reported last year.

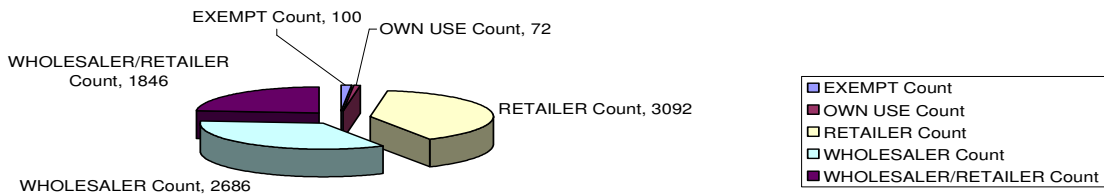
During this period of time, **494** new nursery stock dealers were registered and **536** nursery stock dealers were marked out-of-business. This compares to 494 new registrations and 1,089 nursery stock dealers marked out-of-business during FY 2007-2008. Plant Inspection personnel made **13,765** inspections of nursery stock dealer outlets that sell plants in the State of Florida this fiscal year. This compares with 11,344 inspections of stock dealer last year. Plant Inspection personnel spent **15,765** hours working on stock dealer related issues.



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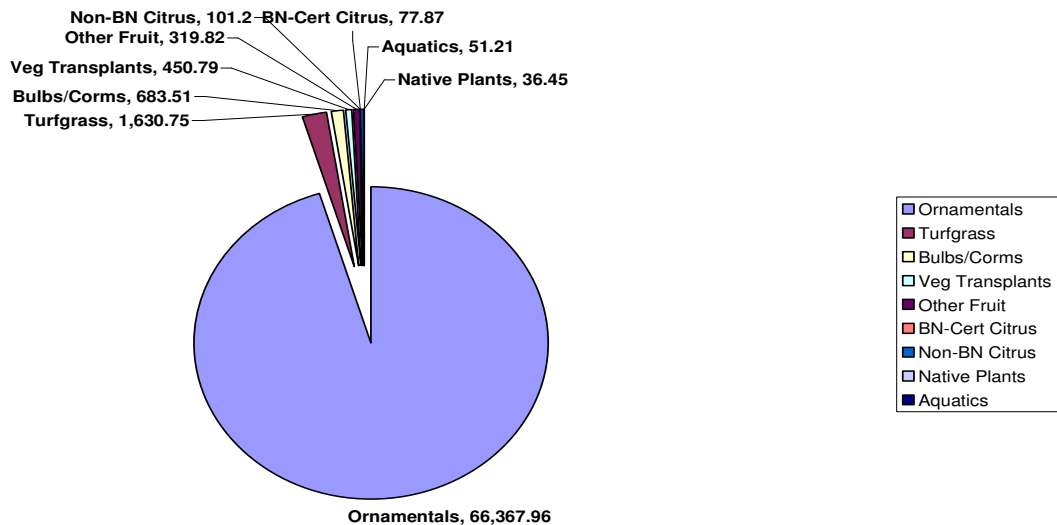
The majority of nurseries (3,092) were retailers selling directly to the public. Wholesaler nurseries numbered 2,686 selling only to other nurseries while nurseries that sell to both markets represented 1,846.

**Nursery Types by Business FY-2008-2009**



Ornamentals represented the vast majority of acreage in term of inventories with bulbs and corms, vegetable transplants, other fruits and nuts, and citrus being the remaining acreage:

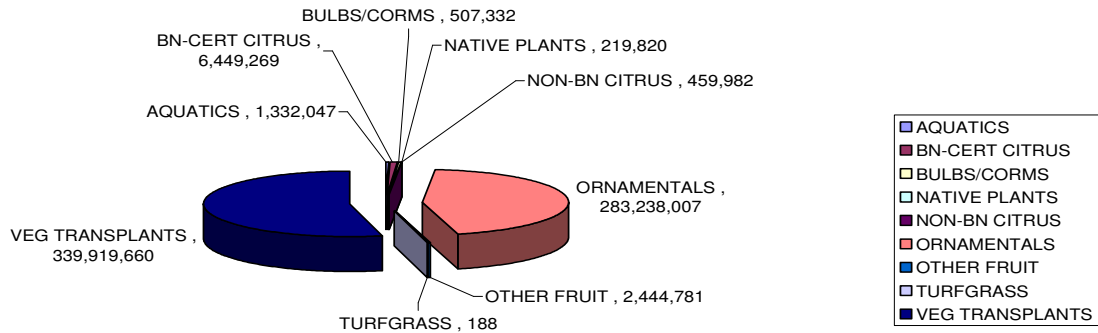
**Acres By Plant Type (69,719.56)**



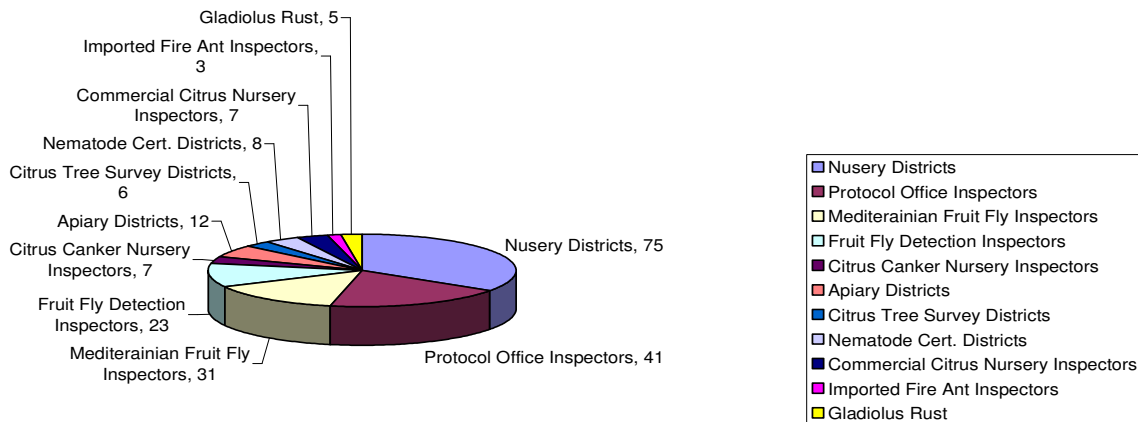
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Ornamentals and vegetable transplants dominated the plant inventory categories for the period:

**Plant Categories & Amounts FY2008-2009 (total Plants 634,571,086)**

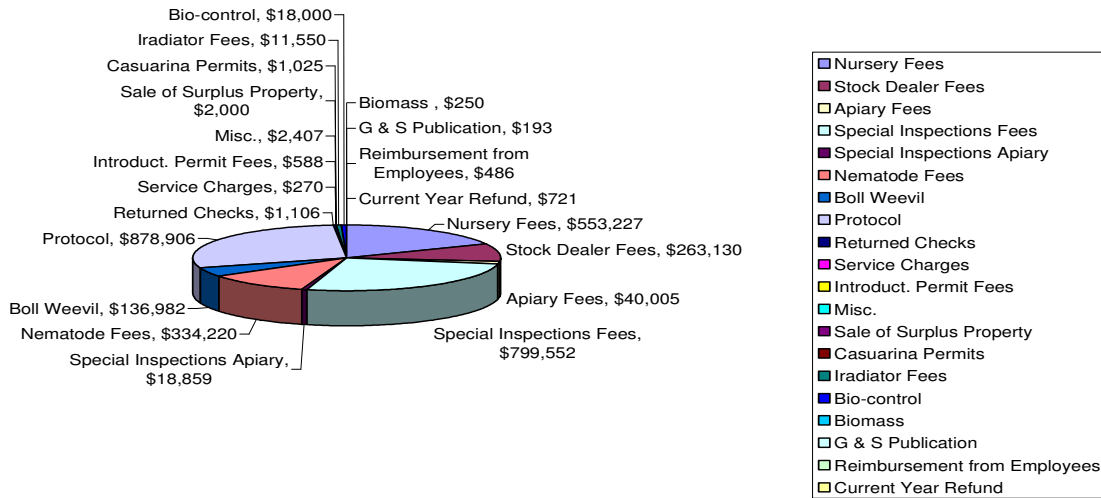


**Inspection Specialties Overview-Fy2008-2009**



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**Monies Collected FY2008-09 (\$3,063,477)**



<b>MONIES COLLECTED 2008-2009</b>	
<b>Type of Charges</b>	<b>Amount Collected</b>
Nursery Certificate Fees	\$553,227
Stock Dealer Certification Fees	\$263,130
Apiary Certificate Fees	\$40,005
Special Inspection Charges (Plant)	\$799,552
Special Inspection Charges (Apiary)	\$18,859
Nematode Sampling Charges	\$334,220
Boll Weevil Assessments	\$136,982
Caribfly Protocol	\$878,906
Returned Checks Re-deposited	\$1,106
Service Charges on Checks	\$270
Introduction Permit Fees	\$588
Casuarinas Permits	\$1025
Miscellaneous	\$2,407
Irradiator Fees	\$11,550
Bio-Control	\$18,000
Bio-Mass	\$250
Reimbursements from Employees	\$486
Sale of Surplus Property	\$2000.05
Current Year Refund	\$720.80
Grades & Standards Publications	\$193
<b>TOTAL:</b>	<b>\$3,063,477</b>

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**PLANTS AND NURSERIES UNDER INSPECTION BY COUNTY**

<b>County</b>	<b>Total Acres</b>	<b>Total Plants</b>	<b>Total Nurseries</b>
Alachua	1174.72	8,402,653	200
Baker	131.29	181,807	30
Bay	975.73	23,955	18
Bradford	17.15	43,228	19
Brevard	920.74	1,257,911	205
Broward	1455.09	5,665,511	506
Calhoun	40.7	241,900	2
Charlotte	647.47	128,586	56
Citrus	173.45	384,373	76
Clay	149.23	1,593,903	39
Collier	1015.2	220,547,308	167
Columbia	226.42	1,150,849	47
DeSoto	282.67	1,288,546	26
Dixie	154.22	22,329	23
Duval	461.172	898,996	83
Escambia	84.06	159,282	54
Flagler	750.42	1,087,367	26
Franklin	0.15	1,940	2
Gadsden	650.4	13,805,080	18
Gilchrist	301.57	454,966	27
Glades	629.22	567,093	12
Gulf	0.2	1,910	3
Hamilton	78.59	73,772	12
Hardee	1416.69	6,753,398	48
Hendry	400.68	117,100,981	45
Hernando	721.91	759,790	88
Highlands	1779.63	7,771,026	110
Hillsborough	3211.207	32,563,187	465
Holmes	11.25	8,550	5
Indian River	740.37	320,606	83
Jackson	46.32	7,017,950	13
Jefferson	564.43	1,933,032	24
Lafayette	147.03	610,363	9
Lake	1402.71	22,900,543	345
Lee	3598.05	3,424,236	230
Leon	69.65	298,205	39
Levy	1275.15	13,510,602	51
Liberty	7.35	4,410	4
Madison	231.56	4,460,270	17
Manatee	1394.55	3,075,546	163
Marion	915.73	6,008,348	211
Martin	1713.6	1,588,061	144
Miami-Dade	12894.33	52,842,559	1481
Monroe	1.23	10,267	38
Nassau	155.81	200,597	17
Okaloosa	30.1	64,650	30
Okeechobee	3032.85	650,087	33
Orange	1803.67	40,109,368	402
Osceola	1222.94	3,566,988	59
Palm Beach	2913.65	17,048,469	19
Pasco	593.67	2,801,393	523
Pinellas	127.795	498,264	150
Polk	1243.04	8,712,436	203

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Putnam	1697.27	1,224,819	254
Santa Rosa	334.55	578,966	53
Sarasota	384.18	648,253	51
Seminole	1730.1	2,907,231	117
St. Johns	3508.33	1,014,120	131
St. Lucie	1730.8	2,042,301	46
Sumter	617.175	7,064,576	61
Suwannee	778.66	1,054,480	77
Taylor	51.99	1,023,702	50
Union	14.32	34,255	21
Volusia	2271.3	2,559,693	5
Wakulla	24.51	261,275	282
Walton	16.75	16,970	11
Washington	8.34	23,540	8

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<b>NURSERY STOCK CLASSIFIED AS ORNAMENTAL</b>				
<b>Classification</b>	<b>2005-2006</b>	<b>2006-2007</b>	<b>2007-2008</b>	<b>2008-2009</b>
Shrubs	123,916,998	118,602,018	97,588,814	78,624,075
Trees, Flowering	27,319,845	20,795,772	18,357,539	23,650,756
Palms	31,531,599	25,844,423	24,063,568	28,064,970
Orchids	18,653,294	13,267,999	24,324,155	15,907,376
Succulents	3,378,105	4,331,072	2,694,117	2,466,149
Foliage Plants	191,662,505	142,338,500	61,783,648	53,416,364
Miniature Citrus	209,763	169,140	95,923	163,339
Dooryard Citrus	1,259,302	1,605,355	240,738	290,971
Perennials	15,786,293	35,087,088	29,599,881	28,974,169
Vines	32,564,686	3,684,472	4,896,201	4,695,886
Miscellaneous Annuals	2,976,671	10,041,303	14,595,507	15,113,240
Bromeliads	17,836,023	13,563,414	10,007,640	7,361,057
Endangered	16,720	4,425	1,250	27,125
Threatened	22,770	23,472	26,570	670
Exploited	90,826	47,192	183,514	192,025
Aquatics	1,716,549	1,441,891	1,330,336	1,332,050
Vegetable Transplants	220,446,287	210,599,927	198,954,582	339,191,760

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<b>NURSERY STOCK BY KIND OF STOCK</b>								
<b>Kind of Stock</b>	<u>2005-2006</u>		<u>2006-2007</u>		<u>2007-2008</u>		<u>2008-2009</u>	
	<b>Acres</b>	<b>Plants</b>	<b>Acres</b>	<b>Plants</b>	<b>Acres</b>	<b>Plants</b>	<b>Acres</b>	<b>Plants</b>
Orange		3,458,232		1,994,161		1,548,873		2,622,048
Grapefruit		329,930		131,470		197,090		716,480
Mandarin type		126,687		132,341		52,094		55,768
Lemons & limes		109,053		50,745		17,459		6,001
Seedlings, in beds		2,392,690		1,264,870		3,484,257		1,123,915
Seedlings, lined out		1,957,289		1,224,511		2,041,085		1,898,909
Miscellaneous Citrus		54,812		37,177		169,338		26,148
<b>TOTAL CITRUS</b>	<b>472</b>	<b>8,428,693</b>	<b>434</b>	<b>4,835,775</b>	<b>199</b>	<b>7,510,196</b>	<b>174</b>	<b>6,909,251</b>
Ornamental		467,313,495		404,929,901		306,849,045		283,238,208
Fruits and Nuts		1,547,498		894,095		1,852,039		2,445,336
Aquatics		1,716,549		1,441,891		1,330,336		1,332,050
Vegetable Transplants		220,446,287		210,599,927		198,954,582		339,191,760
Caladiums & Other Bulbs		9,255		14,109,934		308,739		507,322
<b>TOTAL NONCITRUS</b>	<b>71,649</b>	<b>691,033,084</b>	<b>71,487</b>	<b>631,975,748</b>	<b>67,759</b>	<b>509,294,741</b>	<b>69,546</b>	<b>627,661,835</b>
<b>GRAND TOTAL</b>	<b>72,121</b>	<b>699,461,777</b>	<b>71,922</b>	<b>636,811,523</b>	<b>67,958</b>	<b>517,364,481</b>	<b>69,720</b>	<b>634,571,086</b>

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<b>COUNTIES WITH TREES FOR REFORESTATION</b>		
<b><u>County</u></b>	<b><u>Trees for Reforestation</u></b>	<b><u>Number of Nurseries</u></b>
<b>County</b>	<b>Tree Count</b>	<b>Nurseries</b>
Levy Total	13,000,000	1
Jackson Total	7,000,000	1
Madison Total	3,000,000	1
Taylor Total	800,000	1
Polk Total	545,110	2
Suwannee Total	400,000	1
Miami-Dade Total	46,104	34
Alachua Total	45,300	2
Manatee Total	40,005	4
Palm Beach Total	37,520	5
Putnam Total	20,450	2
Leon Total	12,000	1
Jefferson Total	3,000	1
Martin Total	2,000	1
Nassau Total	2,000	1
Broward Total	1,708	4
Baker Total	1,500	1
Wakulla Total	1,500	1
Indian River Total	1,361	1
Sumter Total	1,000	1
Brevard Total	910	4
Hernando Total	833	3
Duval Total	600	1
Citrus Total	570	1
Hillsborough Total	240	5
Lake Total	120	2
Bay Total	100	1
Okeechobee Total	100	1
Charlotte Total	75	1
Volusia Total	50	1
Orange Total	10	1
<b>TOTALS</b>	<b>24,964,166</b>	<b>87</b>

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**VIOLATIONS AND STOP SALE & HOLD ORDERS**

Between July 1, 2008 and June 30, 2009, Division of Plant Industry personnel issued two Administrative Complaint Letters and inspector issued 3 Complaints of Violation. None of these violations resulted in monetary penalties. There were 857 Stop Sale and Hold Orders for failure to renew annual registration. During the same period of time 587 Stop Sale and Hold Orders have been released as a result of fee payment or going out of business. Bureau personnel also issued 43 Stop Sale and Hold Orders for pests and diseases such as citrus canker, citrus greening, pink hibiscus mealybug, violation of Rule CH. 5B-62, 5B-63, FL Administrative Code, and restricted aquatic plants.

**QUARANTINES**

A total of **122,958** plants were placed under quarantine this fiscal year to prevent further dissemination of potentially serious plant pests. **586 'new'** quarantine letters were issued to regulated entities during the past year. **111 'release'** quarantine letters were processed during the same period of time. The majority of quarantines were issued for the detection of pink hibiscus mealybug, Cycad aulacaspis scale, Agrobacterium tumefaciens, and Asian Citrus Psyllids. Accordingly, the majority of plants placed under quarantine or destroyed were hibiscus, Cycas revoluta, and Ficus benjamina. Citrus trees quarantined as a result of citrus canker are not included in these figures.

**IMPORTED FIRE ANT (IFA) CERTIFICATION PROGRAM**

As of June 30, 2009, there were 1,289 nurseries and stock dealers under compliance agreement for Imported Fire Ant (IFA) certification purposes. This compares to a total of 2,464 nurseries and stock dealers under compliance on June 30, 2008. During this period Plant Inspection personnel spent 9,879 hours associated with IFA activities.

**COMMERCIAL CITRUS NURSERY(CCN) INSPECTION PROGRAM**

In December 2006, Rule Chapter 5B-62, F.A.C., The Citrus Nursery Stock Certification Program was signed into law as part of the Florida Citrus Health Response Program. Included in the Citrus Nursery Stock Certification Program are several important dates that will govern how citrus nursery stock may be produced and offered for sale within the State of Florida. All citrus nursery stock propagated after January 1, 2007 must originate from a greenhouse structure and site approved by the Division of Plant Industry. Effective January 1, 2007 newly propagated commercial and dooryard citrus nursery stock and all budwood source trees must be maintained in an approved structure at an approved site. Effective January 1, 2008 all citrus nursery stock that was not grown in a structure and site approved

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by the Division of Plant Industry will not be eligible for sale or distribution. Therefore, we are advising all citrus nurserymen they have until December 31, 2007 to move or distribute citrus nursery stock that was not grown in an approved structure and site.

The Bureau of Plant Inspection has established a new category of inspectors to address the unique requirements associated with greenhouse structure inspections and associated stock inspections in accordance with this new rule. The new category is Commercial Citrus Inspectors and they are charged with statewide inspections of citrus stock falling into the commercial citrus realm. Inspection of the structures and stock are conducted on a 30 day basis.

As of June 30, 2009, there were 54 citrus propagating nurseries certified and inspected on a 30-day cycle representing 245 greenhouse structures. This compares to 54 citrus propagating nurseries inspected on a 30-day cycle as of June 30, 2008. There are 34 locations that are identified as commercial (certified free of burrowing nematode) citrus nurseries. Additionally there were 6 Own-Use, 7 Research Only, 3 Dooryard, and 4 Commercial/Dooryard citrus nurseries. Commercial citrus nurseries are inspected by seven Commercial Citrus Inspectors. These inspectors are restricted from inspecting more than one nursery per day to prevent transport of citrus diseases/pests between nurseries.

### **BOLL WEEVIL ERADICATION PROGRAM**

At the close of the 2009 cotton-growing season, there were 276 commercial cotton producers in the state. These producers planted 65,340.7 acres of cotton in 13 counties, a decreased over the 2008 growing season of 17,913 acres of planted cotton. Throughout the 2009 cotton growing season, there were no boll weevils trapped in the state. As part of research activities there were 44 boll weevil traps placed and services state-wide. There were 265 plants destroyed for non-compliance.

### **PINK HIBISCUS MEALYBUG (PHM)**

Between July 1, 2008 and June 30, 2009, Department personnel witnessed the destructions of 1,076 plants as a result of PHM. During this period, Plant Inspection personnel spent 1,971 hours working on PHM-related issues. There were 40 quarantine actions to nurseries and nursery stock dealers for PHM; as of June 30, 2009, 18 of those locations currently had plants that remain under quarantine.

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**Casuarina cunninghamiana WIND BREAK PILOT PROGRAM**

Beginning in July 2008, the *Casuarina cunninghamiana* 5 year Windbreak Pilot Program was implemented by Chapter 581.091 Florida Statutes that allows under permit registered nurseries to vegetatively propagate *Casuarina cunninghamiana* from certified male source trees for planting as windbreaks under permit in commercial fresh fruit groves in the areas of Indian River, St. Lucie and Martin Counties. There were 21 trees certified mature male horticulturally true to type source trees, 5 permits issued to certified nurseries for propagation and 1 permit issued for planting *Casuarina cunninghamiana* in a grove in Indian River County. During this period Plant Inspection Personnel spent 544 hours associated with *Casuarina cunninghamiana* activities.

**NON-PROHIBITED AQUATIC HARVESTING PERMITS**

Beginning in July 2008, the Division of Plant Industry took over the regulatory authority of permitting for the importation, transportation, cultivation, collection, sale or possession of any aquatic plant. Non-prohibited aquatic plant harvesters are now required to be registered as a nursery and sign a compliance agreement / permit to harvest non-prohibited aquatics. As of June 30, 2009, the Division issued 27 aquatic harvesting permits were issued.

**ENDANGERED PLANT HARVESTING PERMITS**

Endangered and Commercially Exploited plants requires individuals to have a permit issued by the Division of Plant Industry. Between July 1, 2008 and June 30, 2009, the Division issued 71 permits compared to 51 permits issued during the same period of time last year.

**SURVEY ACTIVITIES**

<b><u>Pest Records</u></b>	<b><u>Arthropods/Mollusca</u></b>	<b><u>Diseases</u></b>
New Host Records	157	28
New County Records	157	21
New State Records	8	4
New US Records	10	1
New to Continent	4	1

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## **TRAPPING ACTIVITIES**

The bureau examines and services various insect traps throughout the state for the early detection of exotic pests. This is summarized below.

### **Fruit Fly Detection (FFD):**

During fiscal year 2008-2009, Plant Inspection personnel and USDA personnel tended an average of **81,095** Trimedlure traps, **20,776** Cue lure traps, **37,572** Methyl euginol traps, 25 Mc Phail traps, **27,446** Multilure traps bringing the total number of traps tended statewide to **166,914**. During this period Plant Inspection personnel spent **105,333** hours working on FFD related activities.

### **Gypsy Moth Detection:**

Plant Inspection personnel tended **222** gypsy moth traps throughout north Florida with three gypsy moths detected during fiscal year 2008-2009. During this period field personnel spent 347.5 hours tending and servicing Gypsy Moth traps in 19 counties.

## **CITRUS TREE SURVEY**

Citrus Tree Survey activities included **2,718** hours working on the Citrus Health Response Program. Census work for Citrus Trees required **6,305** hours. Exports and Nursery purview required **162** hours. Gladiolus Rust efforts required **546** hours.

## **NEMATODE CERTIFICATION ACTIVITIES**

### **ORNAMENTAL NURSERIES**

Florida nursery stock is regulated for certain nematodes when shipped to California, Arizona, Texas, Louisiana, European Union (EU) and other countries. The Division of Plant Industry has seven designated positions responsible for conducting nematode sampling in order to meet certification requirements. During the 2008-2009 Fiscal Year, nematode certification personnel evaluated **1,538** ornamental nurseries consisting of **9,768.14** acres. During the 2008-2009 Fiscal Year, plant inspection personnel spent **11,448** hours related to nematode certification activities.

### **COMMERCIAL CITRUS NURSERY SITES APPROVED FOR PRE-MOVEMENT**

There were no nematodes of citrus detected in citrus nurseries this year. During the year, 37 nematode certification inspections were made of citrus nursery sites. During this fiscal year **53** citrus nursery sites consisting of **317.5** acres were sampled and approved for pre-movement of commercial citrus plants. A total of **270** samples were processed for pre-movement certification.

### **PITS**

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There were no nematodes of citrus detected in pits this year. During the year, **21** inspections were made at soil pits. During this fiscal year **25** soil pits consisting of **1670** acres were sampled and approved for nematode certification.

**SAMPLES TAKEN**

A total of **7,316** samples were collected and processed from citrus nurseries, soil pits, and ornamental nurseries for nematode certification during the 2008-2009 year.

**EXPORT CERTIFICATION**

**Export Certification** – allows for nurseries and nursery stock dealers to export plants and plant products out of the state and/or country. During the fiscal year 2008-2009, Plant Inspection personnel issued the following number of export certificates for plants and plant products destined to other states and countries.

- State Phytosanitary Certificates: **7,156** certificates
- Federal Phytosanitary Certificates: **9,882** certificates
- Federal Re-export & Processed Products Certificates: **881** certificates

**Canadian Greenhouse Certification** – allows for nurseries to export to Canada based on quarterly inspections using authorized stickers in place of a phytosanitary certificate. We currently have **67** nursery locations under compliance and have authorized **9,600** stickers to be printed this year.

**Post Entry Quarantine** – allows for the importation of prohibited plant material into the US. This is a federal program carried out in conjunction with inspections by state inspectors for a two year period. During the fiscal year 2008-2009 there were **6** post entry quarantine permits authorized by the USDA and the State of Florida. Also during the same period of time state inspectors conducted **19** post entry quarantine inspections on plant material.

**Canadian Blueberry Certification** – allows for blueberry fruit shipments to enter Canada based on negative trapping surveys for the blueberry maggot using authorized stickers in place of a phytosanitary certificate. During the past fiscal year we certified **68** locations in Florida and authorized the printing of **2,090** stickers to be printed.

**Tropical Spiderwort Certification** – allows for commercial nursery shipments to meet the quarantine requirements of North Carolina in regards to freedom of the noxious weed, Tropical Spiderwort. At the present time there are **359** nursery locations under compliance for Tropical Spiderwort.

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**CONSUMER ASSISTANCE**

Plant Inspection routinely assists consumers by responding to complaints and requests for information or by investigating plant pest problems. From July 1, 2008 until June 30, 2009 there were **1,292** consumer requests received by the Division of Plant Industry Helpline and forwarded to Plant Inspection for follow-up. The program areas of the calls included Chili Thrips, Pink Hibiscus Mealybug, Sudden Oak Death, Citrus Canker, Huanglongbing (HLB), Red Palm Mite, Tropical Soda Apple, Laurel Wilt, Emerald Ash Borer, and Fruit Flies.

**CARIBBEAN FRUIT FLY CERTIFICATION PROGRAM**

The Caribbean fruit fly, Anastrepha suspensa (Lowe), has been a serious pest of many tropical and sub-tropical fruits of central and south Florida. From the 1965 introduction in the Miami area to the present, this pest has caused concern for many Florida growers and consumers throughout the world. Due to the economic severity that is imposed on fresh fruits and the need to protect other areas of the world against this pest, rigid agricultural quarantines have been established to prevent the movement of infested material and also provide a means for compliance and treatment.

Although these post harvest treatments (fumigation) provided necessary safeguards against this pest, they proved to be expensive and often caused damage to the fruit. In the early 1980's, studies were initiated for the purpose of developing new procedures for certifying citrus fruit free of the Caribbean fruit fly. Based upon these initial studies and a better understanding of the Caribfly as it relates to citrus, an acceptable certification procedure was established. This procedure is referred to as the A Fly-Free Certification Program.® Presently, **Bermuda, Brazil, Colombia, Ecuador, Japan, Korea, New Zealand, Philippines, Thailand, the People's Republic of China, Vietnam** and the states of **California, Hawaii and Texas** have accepted this fly-free certification procedure.

The current procedures for certifying citrus with the fly-free zone concept requires that the fruit come from specific Caribbean fruit fly controlled areas, or designated areas in 22 eligible citrus producing counties (see Table 2).

As can be seen in Table 1, the total acres certified has significantly increased over the last twenty-three years. The 2008-2009 citrus fruit season had 102,480 acres certified in 22 eligible citrus producing counties (see Table 2).

With the Caribfly Protocol, a safe and effective procedure has been established to export citrus to areas requiring quarantine safeguards. Currently the largest importer of fresh Florida citrus fruit is Japan. Since the beginning of the 2008-2009 shipping season there has been a total of 6,195,442 4/5 bushel cartons of citrus fruit shipped fly free to Japan. The fly free certification method has become an accepted procedure and represents 87% of the total Japanese fresh fruit export market during a twenty-three year period. For the 2008-2009 season alone, the fly free certification method represents 100% of the total Japanese fresh fruit export market.

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The Caribbean Fruit Fly Protocol is administered by the Florida Department of Agriculture and Consumer Services= Division of Plant Industry and Division of Fruit and Vegetable Inspection, in cooperation with the U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Plant Protection and Quarantine.

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<b>Table 1</b>				
<b>TOTAL ACRES CERTIFIED – Carib Fruitfly Free</b>				
<u>Fruit Season</u>	<u>Designated Areas</u>	<u>Total Acres</u>	<u>Number of Counties</u>	<u>Number of Acres Certified</u>
1986/1987	162	48,600	2	16,500
1987/1988	322	96,600	4	32,000
1988/1989	744	223,200	7	62,020
1989/1990	902	270,600	13	77,300
1990/1991	1,095	328,500	15	114,420
1991/1992	1,364	409,200	16	139,880
1992/1993	1,658	497,400	18	152,580
1993/1994	1,853	555,900	19	161,140
1994/1995	1,989	596,700	19	187,780
1995/1996	2,260	678,000	20	204,220
1996/1997	2,329	698,700	20	188,080
1997/1998	2,361	708,300	20	186,480
1998/1999	2,393	717,900	20	185,200
1999/2000	2,511	753,300	21	184,020
2000/2001	2,569	770,700	22	178,500
2001/2002	2,636	790,800	22	175,200
2002/2003	2,684	805,200	22	157,640
2003/2004	2,713	813,900	22	162,540
2004/2005	2,724	817,200	22	125,200
2005/2006	2,730	819,000	22	93,020
2006/2007	2,752	825,600	22	115,320
2007/2008	2,762	828,600	22	108,600
2008/2009	2,765	829,500	22	102,480

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<b>Table 2</b>					
<b>ACRES CERTIFIED 2008-2009 EARLY SEASON AND STANDARD CERTIFICATION BY COUNTY</b>					
	<b>EARLY SEASON</b>		<b>STANDARD SEASON</b>		
<b>COUNTY</b>	<b>BAIT SPRAY</b>	<b>NEGATIVE TRAPPING</b>	<b>BAIT SPRAY</b>	<b>NEGATIVE TRAPPING</b>	<b>TOTAL</b>
Brevard	0	0	0	0	0
Charlotte	0	3,520	800	0	4,320
Collier	160	0	120	0	280
Desoto	80	0	160	0	240
Glades	0	0	0	0	0
Hardee	120	0	120	0	240
Hendry	320	320	360	320	1,320
Highlands	40	0	160	15,680	15,880
Indian River	1,960	18,880	8,840	0	29,680
Lake	80	0	40	0	120
Lee	40	0	200	0	240
Manatee	0	0	40	0	40
Martin	160	0	160	0	320
Osceola	80	0	640	0	720
Okeechobee	0	640	0	0	640
Orange	160	0	520	0	680
Palm Beach	0	0	0	0	0
Pasco	40	0	0	0	40
Polk	40	0	80	0	120
Sarasota	0	0	0	0	0
St. Lucie	1,600	22,080	3,760	20,160	47,600
Volusia	0	0	0	0	0
<b>Total Acres</b>	<b>4,880</b>	<b>45,440</b>	<b>16,000</b>	<b>36,160</b>	<b>102,480</b>

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**Table 4**

**EXPORT OF FRESH CITRUS TO JAPAN**

**(4/5 BUSHEL BOXES)**

<u>FRESH FRUIT SEASON</u>	<u>COLD TREATMENT SHORT TERM</u>	<u>COLD TREATMEN T LONG TERM</u>	<u>FLY CONTROL ZONE</u>	<u>EDB</u>	<u>TOTAL</u>
1986/1987	1,530,366	1,643,968	926,076	4,999,988	9,100,368
1987/1988	1,142,354	3,905,585	4,461,699	951,848	10,471,486
1988/1989	2,291,669	4,571,525	6,473,147	0	13,336,341
1989/1990	100,364	303,486	4,973,538	0	5,377,388
1990/1991	1,626,865	1,071,805	8,813,266	0	11,511,936
1991/1992	385,835	1,043,456	9,618,375	0	11,047,666
1992/1993	309,856	382,566	8,490,940	0	9,183,362
1993/1994	94,754	462,491	11,039,972	0	11,597,217
1994/1995	31,694	27,027	10,369,389	0	10,428,110
1995/1996	6,506	42,057	11,302,379	0	11,351,242
1996/1997	8,915	124,848	10,933,942	0	11,067,185
1997/1998	3,627	158,147	9,169,261	0	9,331,035
1998/1999	7,182	99,154	10,014,270	0	10,120,606
1999/2000	0	99,819	10,872,580	0	10,972,399
2000/2001	2,493	214,026	10,560,115	0	10,776,634
2001/2002	5,334	48,834	11,198,287	0	11,252,455
2002/2003	6,106	0	10,181,532	0	10,187,638
2003/2004	0	0	12,142,059	0	12,142,059
2004/2005	1,134	0	4,857,921	0	4,859,055
2005/2006	0	0	4,570,612	0	4,570,612
2006/2007	0	0	8,065,837	0	8,065,837
2007/2008	0	0	7,266,404	0	7,266,404
2008/2009	0	0	7,266,404	0	7,266,404
<b>TOTAL</b>	<b>7,555,054</b>	<b>14,198,794</b>	<b>192,494,823</b>	<b>5,961,836</b>	<b>220,200,497</b>

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**OFFICE OF AGRICULTURAL LAW ENFORCEMENT REPORT  
Of AGRICULTURAL PRODUCTS ENTERING FLORIDA**

A total of **38,156** vehicles carrying plants and plant products were reported entering and exiting Florida through the agriculture inspection stations operated by the Office of Agricultural Law Enforcement Unit during the **2008-2009** Fiscal Year. The commodities indicated below were reported from shipments entering Florida. Statistics provided by the Office of Agricultural Law Enforcement.

<b>Commodity</b>	<b># of Shipments</b>	<b># of Violations</b>
AAA MULTIPRODUCTS	5611	20
ASTER	2	0
AVOCADO	240	3
BROCCOLI	346	0
CAULIFLOWER	61	0
CELERY	86	0
CHRYSANTHEMUM	3	0
CITRUS	9171	184
CUCUMBERS	86	0
CUT CHRISTMAS TREE	166	2
CUT FERN	16	0
CUT FLOWERS	80	1
CUT FOLIAGE	154	0
DOGWOOD	1	1
GARDEN LETTUCE	399	0
GREEN ONIONS	229	22
HAY	163	0
LIME	284	3
MANGOES	149	0
MELON	556	1
NURSERY STOCK	2511	141
OAK	65	0
ONION	1016	0
ORGANIC VEGETABLES	38	0
OTHER-PLANT	4026	19
PEPPER	118	1
PINE STRAW	144	0
POTATO	782	0
PRODUCE-DOMESTIC	2868	10
PRODUCE-FOREIGN	274	1
SEED POTATOES	208	5
SOD	89	1
SPINACH	32	0
SUGARCANE	6	2
TOMATO	504	1
UNKNOWN	1	0
<b>TOTAL</b>	<b>30485</b>	<b>418</b>

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**APIARY INSPECTION**

In the fiscal year **2008-2009**, of the **230,221** honey bee colonies maintained by registered Florida Beekeepers, there were **62,469** colonies inspected from **2,712** apiaries. Compensation in the amount of **\$930.00** was paid to beekeepers for **42** honey bee colonies destroyed because of infestation of American Foulbrood Disease. There were **121,551** colonies that moved into Florida from **15** different migratory states and **125,145** colonies shipped to **24** different states.

The Apiary Section has educated thousands of citizens, tourists, and businesses in Florida and world wide on the importance of honey bees and their place in Agricultural.

**Honey Bee Health In Florida**

Honey Bee Health in Florida, due to the parasitic mite, varroa, the parasitic tracheal mite, Nosema apis and ceranae, Israeli Acute Paralysis Virus (IAPV), American Foul Brood (AFB), European Foul Brood (EFB), and other viruses and bacteria which contribute to what is known as Colony Collapse Disorder or CCD resulted in a 33% loss of honey bee colonies in 2008-2009.

Florida beekeepers continue to produce some of the finest varietal honeys in the world. But, honey produced on a production scale does not return the revenue needed to solely allow this industry to compete with low cost imported honey. Revenue produced from fee based pollination of an extensive list of crops provides the extra level of margin to keep commercial beekeepers solvent. Pollination of Florida crops adds significantly to the \$100 billion dollar value of this great resource. Thirty-five percent of the calories in each of our daily diets is provided by the foods honey bees are responsible for pollinating and thus producing a fruit, vegetable, nut, or berry to keep us healthy.

After closer examination of honey bees, their nest environment, their foraging environment, pests, parasites, and disease management a variety of stressors have been identified.

Pests, parasites, and disease introduced from outside of the United States continue to be identified as primary honey bee stressors.

External and internal honey bee mite parasites have weakened managed honey bee colonies and virtually eliminated feral European honey bee populations. Chemical Miticides provided to control these destructive parasites may have negative long term effects on honey bee populations. Introduced pathogens such as Nosema ceranae and viruses such as the Israeli Acute Paralysis Virus (IAPV) that have limited control methods have been discovered and implicated in Honey Bee Health declines. Incomplete nutrition afforded honey bees confined to pollinate and forage on large expanses of agricultural mono-crops along with nutritionally incomplete artificial diets weaken honey bees and their immune systems. Agricultural pest and disease control chemicals as applied topically or systemically on crops negatively can impact the beneficial honey bee unintentionally. The growth of our great State is crowding out various parts of the Agricultural Sector. Locations for beekeepers are being limited, making this profession more difficult.

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Healthy honey bees would mean a healthier more robust Beekeeping Industry and healthier Florida Agriculture. The business model for the commercial beekeeping industry is changing. Acceptance of yearly 30% losses, dependence on pollination revenue to compliment honey production and loss of smaller beekeeping businesses as other grow to have economy's of scale is not a sustainable business model.

Part-time beekeepers have grown tremendously adding 30% to the listing of Registered Beekeepers. These "hobby" beekeepers are not accepting the demise of the honey bee and are actively engaged in forming new local and regional associations, training, educating, and advertising the value of honey bees to Florida at large.

For whatever reasons or combination of factors, honey bee colonies continue to lose vitality and the reality is that honey bees are simply not healthy, which in turn makes commercial beekeeping in Florida less attractive and more precarious.

**African Honey Bee**

The feral population growth, public safety concerns, and protection of the Apiculture Industry all are intersecting as we try to soften direct impacts of African Bees. The African Bee is an invasive that will dominate the feral environment of Florida and the Southeast United States. Currently the African Bee is multiplying it's population from a line that goes from the East Coast to West Coast of Florida bisecting Orlando. Non-fatal stinging incidents with people, pets, livestock, and wildlife are increasing as expected. As an example, the Miami-Dade Venom Response Team responded to approximately 400 African Bee stinging incidents in 2008. There is continued sporadic pet, livestock, and known wildlife fatal stinging incidents that regularly are picked up by the media.

The Apiary Section continues to lead on African Bee educational outreach initiatives. Hundreds of thousands of Florida citizens, state, county, and municipal authorities have been trained.

We have partnered with the University of Florida's Institute of Food and Agricultural Sciences (UF/IFAS) on two levels for a comprehensive approach to African Bee Training. The first level involves the training by Dr. Bill Kern of First Responders, Fire Departments Emergency Rescue Personnel, and Police in African Honey Bee (AHB) stinging incidents and the rescue of victims. The second level has been the creation at UF/IFAS by Dr. James Ellis of the AFBEE or African Honey Bee Extension and Education Program. This is designed to provide all of Florida with timely, safety and eradication recommendations for AHB.

The Apiary Inspection Section's African Bee Identification Laboratory continues to operate under a back log of samples submitted by Apiary Inspectors, U/IFAS, Pest Control Operators, and concerned citizens.

Best Management Practices for beekeepers continue to be offered to Registered Beekeepers as a way to maintain manageable honey bee colonies and not be considered a public nuisance.

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The FDACS/DPI in coordination with other stakeholders in agriculture, state, county, and local government agencies, UF/IFAS, First Responders, schools, hospitals, and many others, continue to develop tools and training to protect the Beekeeping Industry and educate the public on how to effectively and safely deal with this potential danger. The transition to a feral bee population dominated by AHB in Florida is proceeding. We are doing everything possible to avert and delay additional human fatalities by AHB in Florida

**Apiary Research Activities**

- (1) Increasing African Honey Bee Awareness via the **African Honey Bee Extension and Education Program (AFBEE)**  
Dr. Jamie Ellis, University of Florida/Institute of Food and Agricultural Sciences
- (2) African Honey Extension Education  
William H. Kern, Jr., University of Florida/Institute of Food and Agricultural Sciences
- (3) Field Testing of Ozsone (O<sub>3</sub>) as a Fumigant for Honey Bee Comb  
Dr. Rosalind James, United States Department of Agriculture/  
Agricultural Research Services (USDA/ARS) Logan, Utah
- (4) Bee Pests and Pest Bees: Reducing the impacts by Nosema and Africanized Bees  
Dr. Jay Evan, USDA/ARS, Beltsville, Maryland
- (5) Integrated Pest Management for Honey Bees  
Dr. Paul Jepson, Oregon State University Corvallis, Oregon
- (6) Quantifying the Exposure and Effect of Former Applied Pesticides on East Coast Migratory Operations Starting the Season in Florida  
Dennis vanEngelsdorp, Pennsylvania State University – University Park, Pennsylvania
- (7) Identification of a Diet Supplement to Improve Honey Bee Health  
Dr. Amanda Ellis, FDACS/DPI/Apiary Section Gainesville, Florida
- (8) Determining Optimum Varroa Mite Economic Treatment Thresholds and Powdered Sugar Efficacy Trials.  
Dr. Amanda Ellis, FDACS/DPI/Apiary Section Gainesville, Florida
- (9) Investigate the Use of Small Cell Foundation as a Tool for Varroa Mite Control  
Dr. Amanda Ellis, FDACS/DPI/Apiary Section Gainesville, Florida

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**Industry Status**

The Apiculture Industry, **commercially**, continues to struggle with Honey Bee Health issues, low honey sales, loss of habitat, loss of agriculture, loss of Apiary sites in Florida with a population explosion.

The **part-time** beekeeping industry continues to grow. The interest in beekeeping due to awareness of the importance of Honey Bee is increasing.

(A) Honey Bee Health: Varroa Mites, an external parasite, continues to be the most significant honey bee health concern. Controlling the mite without damaging the honey bees or colony is still a challenge.

(B) Honey Sales: Honey as produced on a commercial scale is a commodity. The low cost producer always wins the commodity competition. Asian Honey Producers are the low cost winners. They dominate the market and make honey “only” production a flawed business model for Florida Beekeepers.

(C) Loss of Habitat/Agriculture and Locations: Florida is a popular state for people to relocate to. Land is more valuable for building development than for agriculture in many places.

(D) Pollination Business Model: Many crops such as almonds, cranberries, blueberries, apples, etc. are grown in vast acreage that requires honey bees for pollination and crop production. They absolutely, positively require honey bees to produce a crop. Large mobile commercial beekeepers in Florida leave the state to participate in fee based pollination of many crops.